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EXAMINER

TORRES, MARCOS L

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PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary	Application No. 10/530,256	Applicant(s) OKSALA ET AL.	
	Examiner MARCOS L. TORRES	Art Unit 2617	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 11 October 2006.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-16 and 18-28 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-16 and 18-28 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____ |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date <u>4-1-05</u> . | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

2. Claims 1, 3-9, 11-13, 18-23 and 28 are rejected under 35 U.S.C. 102(b) as being anticipated by Naghian WO 00/49824.

As to claim 1, Naghian discloses a method for controlling the use of transmission resources, wherein transmission resources for a transmission between a first entity and a second entity can be used by at least a first connection and a second connection, comprising: checking whether QoS requirements of said first connection can still be guaranteed when said transmission resources are jointly used by said first connection and said second connection (see page 6, lines 12-19), and controlling the use of at least one portion of said transmission resources by at least one of said first and second connections, accordingly (see page 6, lines 29-34).

As to claim 3, Naghian discloses a method wherein said step of controlling the use of at least one portion of said transmission resources by at least one of said first and second connections comprises blocking said second connection, if it is determined that said QoS requirements of said first connection can no longer be

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guaranteed when said transmission resources are jointly used by said first connection and said second connection (see page 8, lines 30-32).

As to claim 4, Naghian discloses the method according wherein said step of controlling the use of at least one portion of said transmission resources by at least one of said first and second connections comprises reducing the QoS requirements of said first connection and changing the portion of said transmission resources that can be used by said first connection, if it is determined that said QoS requirements of said first connection can no longer be guaranteed when said transmission resources are jointly used by said first connection and said second connection (see page 8, lines 9-23).

As to claim 5, Naghian discloses the method wherein said step of controlling the use of at least one portion of said transmission resources by at least one of said first and second connections comprises changing the portion of said transmission resources that can be used by said first connection, if it is determined that said QoS requirements of said first connection can still be guaranteed when said transmission resources are jointly used by said first connection and said second connection (see page 8, lines 24-30).

As to claim 6, Naghian discloses the method wherein said steps of checking and controlling are performed before said first and second connection connections have been established [note that the reference disclose check and control for existing and new connections, thereby the new connection then will be the first and second] (see page 6, lines 9-19).

As to claim 7, Naghian discloses the method wherein said steps of checking (208, 211) and controlling are performed after said first connection has been established and before said second connection has been established (see page 6, lines 32-34).

As to claim 8, Naghian discloses the method wherein said transmission resources characterize the data transmission capabilities of said first and/or second entity (see page 6, lines 32-34).

As to claim 9, Naghian discloses the method wherein said step of checking is at least partially performed by a transmission resources control instance that interacts with said first and/or second entity (see page 7, lines 1-21).

As to claim 11, Naghian discloses the method wherein said entities are contained in a mobile station and in a network of a wireless communication system (see page 5, lines 6-15), in particular a 3G mobile radio system (see page 3, lines 4-6).

As to claim 12, Naghian discloses the method wherein said connections are packet-switched connections between said entities in said mobile station and said network (see page 3, lines 4-6).

As to claim 13, Naghian discloses the method wherein said QoS requirement of said first connection is a minimum bit rate (see page 11, lines 2-13).

As to claim 18 is the corresponding computer program product claim of the method claim 1. Therefore, it is rejected for the same reasons.

As to claim 19, Naghian discloses the wireless communication system, comprising: at least one mobile station, and at least one network, wherein

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transmission resources for a transmission between a first entity and a second entity can be used by at least a first connection and a second connection, wherein it is checked whether QoS requirements of said first connection can still be guaranteed when said transmission resources are jointly used by said first connection and said second connection (see page 6, lines 12-19), and wherein the use of at least one portion of said transmission resources by at least one of said first and second connections is controlled, accordingly (see page 6, lines 29-34).

As to claim 20, Naghian discloses the device for controlling the use of transmission resources, wherein transmission resources for a transmission between a first entity and a second entity can be used by at least a first connection and a second connection, comprising: means for checking whether QoS requirements of said first connection can still be guaranteed when said transmission resources are jointly used by said first connection and said second connection (see page 6, lines 12-19), and for at least partially controlling the use of at least one portion of said transmission resources by at least one of said first and second connections, accordingly (see page 6, lines 29-34).

As to claim 21, Naghian discloses the mobile station in a wireless communication system, wherein transmission resources for a transmission between a first entity in said mobile station and a second entity in a network of said wireless communication system can be used by at least a first connection and a second connection, said mobile station comprising: means for checking whether QoS requirements of said first connection can still be guaranteed when said transmission

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resources are jointly used by said first connection and said second connection (see page 6, lines 12-19), and means for controlling the use of at least one portion of said transmission resources by at least one of said first and second connections, accordingly (see page 6, lines 29-34).

As to claim 22, Naghian discloses the mobile station wherein said transmission resources characterise the data transmission capabilities of said mobile station and/or network (see page 6, lines 9-22).

As to claim 23, Naghian discloses the mobile station wherein said means for checking whether QoS requirements of said first connection can still be guaranteed when said transmission resources are jointly used by said first connection and said second connection comprises a transmission resources control instance that interacts with said first entity in said mobile station (see page 6, lines 9-22).

As to claim 28, Naghian discloses the network element in a wireless communication system, wherein transmission resources for a transmission between a first entity in a mobile station and a second entity in a network of said wireless communication system can be used by at least a first connection and a second connection, said network element comprising: - means for checking whether QoS requirements of said first connection can still be guaranteed when said transmission resources are jointly used by said first connection and said second connection (see page 6, lines 12-19), and means for controlling the use of at least one portion of said transmission resources by at least one of said first and second connections, accordingly (see page 6, lines 29-34).

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Claim Rejections - 35 USC § 103

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

4. The factual inquiries set forth in *Graham v. John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

1. Determining the scope and contents of the prior art.
2. Ascertaining the differences between the prior art and the claims at issue.
3. Resolving the level of ordinary skill in the pertinent art.
4. Considering objective evidence present in the application indicating obviousness or nonobviousness.

5. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

6. Claim 2 is rejected under 35 U.S.C. 103(a) as being unpatentable over Naghian in view of Kim 6771648.

As to claim 2, Naghian discloses everything as explained above except for the method wherein said step of controlling the use of at least one portion of said transmission resources by at least one of said first and second connections comprises pausing or releasing said first connection, if it is determined that said QoS requirements of said first connection can no longer be guaranteed when said transmission resources are jointly used by said first connection and said second connection. In an analogous art, Kim discloses the method wherein said step of controlling the use of at least one portion of said transmission resources by at least one of said first and second connections comprises pausing or releasing said first connection, if it is determined that said QoS requirements of said first connection can no longer be guaranteed when said transmission resources are jointly used by said first connection and said second connection (see col. 2, lines 39-44). Therefore, it would have been obvious to one of the ordinary skills in the art at the time of the invention to limit and release any connection according the connection priority for the simple purpose of avoiding an overload.

7. Claims 10 and 24 rejected under 35 U.S.C. 103(a) as being unpatentable over Naghian in view of Baj 7130273.

As to claims 10 and 24, Naghian discloses everything as explained above except for the method wherein said step of checking comprises the step of checking capabilities of hardware that is used by said first or second entity. In an analogous art, Baj discloses the method wherein said step of checking comprises the step of checking capabilities of hardware that is used by said first or second entity (see col. 5, lines 45-60). Therefore, it would have been obvious to one of the ordinary skills in the art at the

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time of the invention to check the capabilities of the hardware to optimize the system and diagnostic the mobile device and maintain the quality of the service.

8. Claims 14-15 and 25-26 are rejected under 35 U.S.C. 103(a) as being unpatentable over Naghian in view of Casati 7,301,934.

As to claims 14 and 25, Naghian discloses as said first connection and a second connection, and wherein said step of checking determines whether bit rate requirements of said connection can still be guaranteed when said transmission resources are used (see page 6, lines 9-45) . Naghian does not specifically disclose the method according wherein said wireless communication system is capable of operating a Dual Transfer Mode (DTM) that comprises a packet-switched connection, in particular a connection according to the General Packet Radio Service (GPRS), as said first connection and a circuit-switched connection as said second connection. In an analogous art Casati discloses the method according wherein said wireless communication system is capable of operating a Dual Transfer Mode (DTM) that comprises a packet-switched connection, in particular a connection according to the General Packet Radio Service (GPRS), as said first connection and a circuit-switched connection as said second connection (see col. 2, line 59 – col. 3, line 14). Therefore, it would have been obvious to one of the ordinary skills in the art at the time of the invention to combine these teaching to provide protocol roaming and increase bandwidth.

As to claims 15 and 26, Naghian discloses everything as explained above except for the method, wherein said packet-switched and circuit-switched connections are provided by a radio bearer, and wherein in said step of checking, said transmission

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resources control instance informs said bearer on the availability of said transmission resources. In an analogous art, Casati discloses the method, wherein said packet-switched and circuit-switched connections are provided by a radio bearer, and wherein in said step of checking, said transmission resources control instance informs said bearer on the availability of said transmission resources (see col. 3, lines 1-14).

Therefore, it would have been obvious to one of the ordinary skills in the art at the time of the invention to inform the availability for the simple purpose letting know the mobile the service so the device could use it.

9. Claims 16 and 27 are rejected under 35 U.S.C. 103(a) as being unpatentable over Naghian in view of Casati as applied to claims 15 and 26 above, and further in view of Baj.

As to claims 16 and 27, Naghian discloses the method wherein said transmission resources control instance monitors the connections provided by said bearer and, based at least one said monitored connections and determines the availability of said transmission resources (see page 6, lines 9-34). Naghian and Casati fail to teach the use hardware profiles of said mobile station. In an analogous art, Baj discloses the use of hardware profiles of said mobile station (see col. 5, lines 45-60). Therefore, it would have been obvious to one of the ordinary skills in the art at the time of the invention to check the capabilities of the hardware to optimize the system and diagnostic the mobile device and maintain the quality of the service.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to MARCOS L. TORRES whose telephone number is (571)272-7926. The examiner can normally be reached on 9:30 am - 6:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, George Eng can be reached on 571-252-7495. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/George Eng/
Supervisory Patent Examiner, Art Unit 2617

/Marcos L Torres/
Examiner, Art Unit 2617